

Pf-2782/nec/us/mh

ABSTRACT OF THE DISCLOSURE

The present invention provides a phase comparator provided in a phase locked loop circuit, the phase comparator converting a phase difference between first and second input signals into a current signal, wherein the phase comparator has : a lock detector for detecting locked and unlocked states of the phase locked loop circuit to generate a detected signal which indicates one of the locked and unlocked states ; and a current source connected to the lock detector for receiving the detected signal from the lock detector and varying a supply current based on the detected signal, so that if the detected signal indicates the unlocked states, then the current source increases the supplying current.

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